

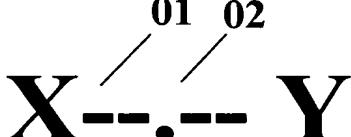
X  Y

FIG. 1a

V2.03R

FIG. 1b

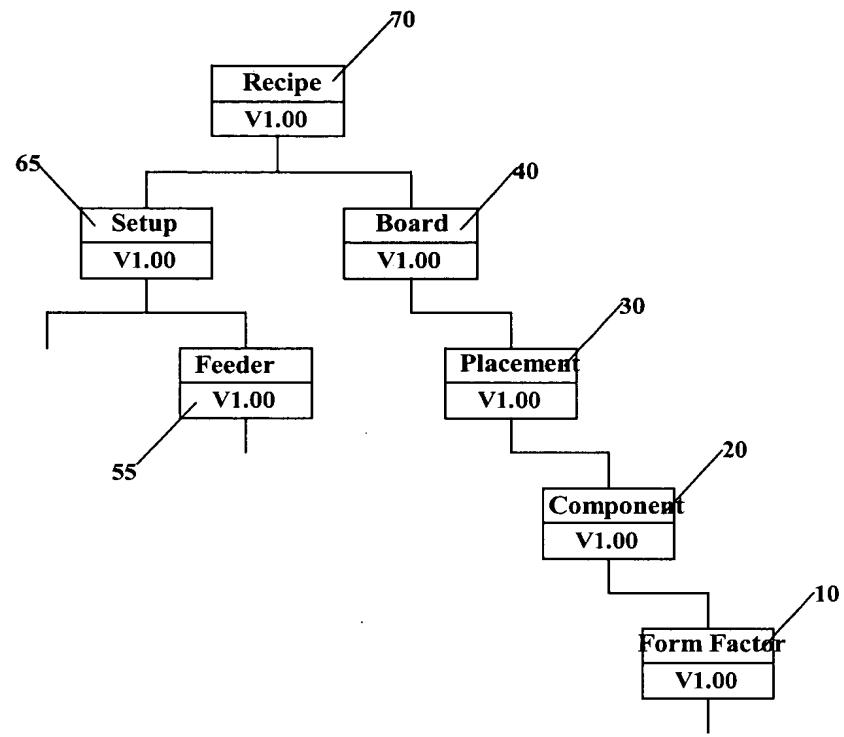


FIG. 2a

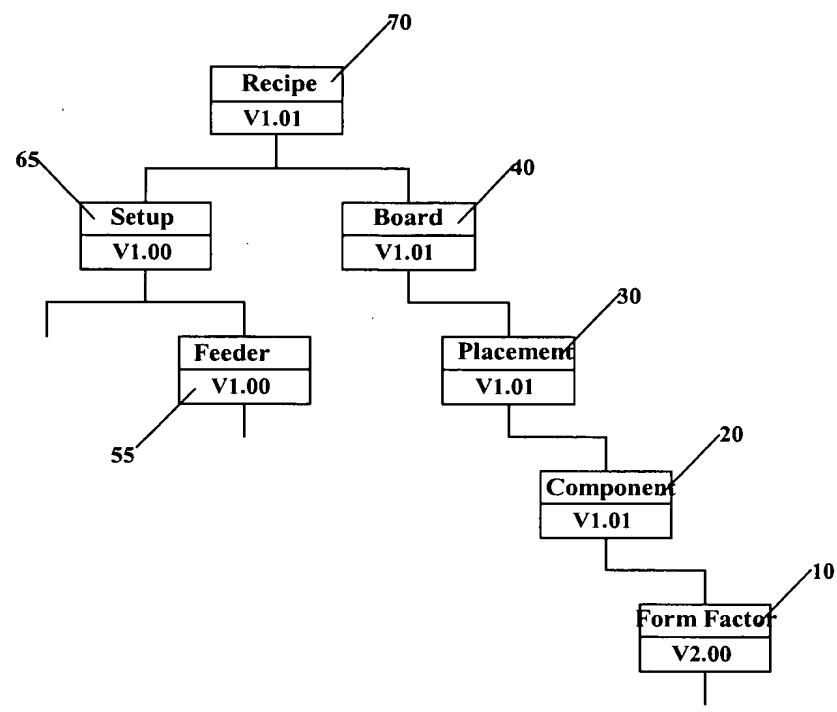


FIG. 2b

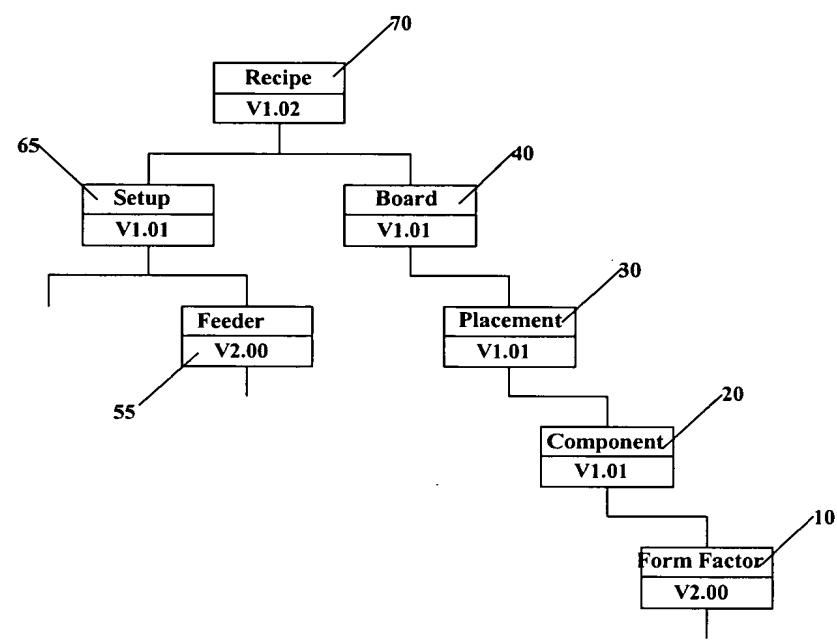


FIG. 2c

VERSION TRACKING ON A SINGLE LINE

Event	User	Action	Object	Name	Version
1	Eng/Op	Programs a board	Recipe -1	Board	V1.00
2	Eng/Op	Modifies the same board	"	"	"
3	Eng/Op	Downloads Recipe-2 for Smartphone line	Recipe -1 Recipe -2	Board SPLine	" "
4	LINE...	Runs board & requests validation	"	"	"
5	Eng/Op	Checks board & finds error	Recipe -1	Board	
6	Eng/Op	Corrects program	"	"	"
7	Eng/Op	Downloads recipe	Recipe -1 Recipe -2	Board SPLine	" "
8	LINE...	Runs board & requests validation	"	"	"
9	Eng/Op	Checks board and Releases it	Recipe -1 Recipe -2	Board SPLine	V1.00R V1.00R

10	At a later time, Eng/Op wants to modify sub-object SOT23		Package Form	SOT 23	V1.00R
11	Eng/Op Modifies SOT23		Pkg. Form Recipe-1 Recipe-2	SOT 23 Board SPLine	V2.00 V1.01 V1.01
12	Downloads Recipe-2 and runs board		Pkg. Form Recipe-1 Recipe-2	SOT 23 Board SPLine	V2.00 V1.01 V1.01
13	LINE... Runs board & requests release of Recipe-1/2 (line/board)		"	"	"
14	Eng/Op Checks pkg.& validates it, which is equivalent to releasing it for a single line.		Pkg. Form Recipe-1 Recipe-2	SOT 23 Board SPLine	V2.00R V1.01R V1.01R

15	At a later time, Eng/Op downloads program		Pkg. Form Recipe-1 Recipe-2	SOT 23 Board SPLine	V2.00R V1.01R V1.01R
16	LINE... Runs board with no modifications		"	"	"

17	At a later time, Eng/Op downloads a different recipe (3) with the same SOT 23 as modified earlier in V1.01.		Recipe-3	Pocket PC	V1.00R
18	Eng/Op finds problem and differently modifies SOT23 again		Recipe-3 Pkg.Form2	Pck.PC SOT 23	V1.01 V3.0
19	Eng/Op downloads program to line		"	"	"
20	LINE... Runs board & requests release		"	"	"
21	Eng/Op Checks board and Releases it		Recipe-3 Pkg.Form2	Pck.PC SOT 23	V1.01R V3.0R
22	SYSTE M	Automatically updates recipes at the Enterprise level	Pkg. Form Recipe-1 Recipe-3	SOT 23 Board Pck.PC	V3.00R V1.02R V1.02R

Fig. 3

VERSION TRACKING IN A MULTIPLE-LINE FACTORY

Step	User	Action	Object	Name	Version
23	Engineer	Programs a board	Recipe -1	Board	V1.00
24	Engineer	Modifies the same board	"	"	"
25	Engineer	Downloads Recipe-2 for Smartphone line	Recipe -1 Recipe -2	Board SPLine	" "
26	LINE...	Runs board & asks Operator to validate recipe/board	"	"	"
27	Operator	Checks board & finds error	Recipe -1	Board	
28	Operator	Corrects program	"	"	"
29	Operator	Downloads recipe & runs board	Recipe -1 Recipe -2	Board SPLine	" "
30	LINE...	Runs board & asks Operator to validate recipe/board	"	"	"
31	Operator	Checks board and validates it	Recipe -1 Recipe -2	Board SPLine	V1.00V V1.00V

32	At a later time, Operator finds some issues on SOT23		Package Form	SOT 23	V1.00R
33	Operator Modifies SOT23		Pkg. Form Recipe-1 Recipe-2	SOT 23 Board SPLine	V2.00 V1.01 V1.01
34	Operator Downloads recipe for Smartphone Line		Pkg. Form Recipe-1 Recipe-2	SOT 23 Board SPLine	V2.00 V1.01 V1.01
35	LINE...		"	"	"
36	Operator Checks board and Validates it		Pkg. Form Recipe-1 Recipe-2	SOT 23 Board SPLine	V2.00V V1.01V V1.01V

37	Engineer informed of modification				
38	Engineer approves modification & Releases SOT 23		Package Form	SOT 23	V2.00R
39	Operator Downloads to different line Released objects are also released on a different line, validated objects have to be validated again		Pkg. Form Recipe-1 Recipe-2	SOT 23 Board SPLine	V2.00R V1.01 V1.01
40	LINE 2 Runs board and asks operator to validate recipe/board				
41	Operator checks program and validates it		Pkg. Form Recipe-1 Recipe-2	SOT 23 Board SPLine	V2.00R V1.01V V1.01V
42	Engineer checks program and releases it		Pkg. Form Recipe-1 Recipe-2	SOT 23 Board SPLine	V2.00R V1.01R V1.01R
43	Operator Downloads program to a third line		Pkg. Form Recipe-1 Recipe-2	SOT 23 Board SPLine	V2.00R V1.01R V1.01R
44	Line 3 Runs board since it is a released program				

Fig. 4

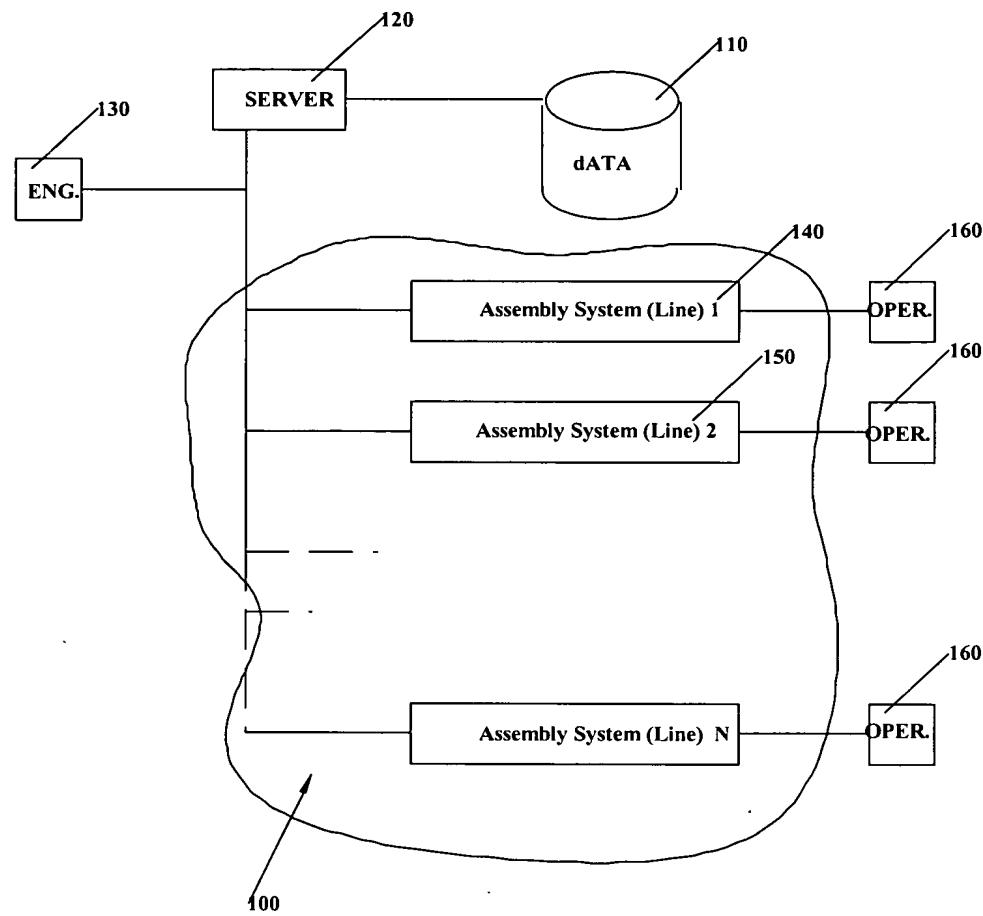


FIG. 5